



Arbovirus Surveillance Program
Massachusetts Department of Public Health
Infectious Diseases Laboratory Division
State Laboratory Institute

Date: September 22, 2000

Thirty-three additional birds, found dead between September 13 and September 15 were confirmed positive for West Nile Virus (WNV), bringing the total number of WNV-positive birds to 209. There were 7 towns that had WNV-infected birds reported for the first time this year: Barnstable, Chicopee, Dudley, Norton, Oxford, Springfield and Wilbraham. Each submitted one WNV-infected American crow. The number of WNV-infected birds reported this week in other towns where infected birds have been found previously are: Belmont (1), Brookline (4), Boston (3), Cambridge (1), Cohasset (2), Hingham (1), Hopkinton (1), Marion (1), Medford (4), Middleboro (1), Natick (2), Newton (2), Wellesley (1), Weymouth (2).

The total number of WNV-infected birds by location to date is Brookline (56); Boston (34); Newton (16); Cambridge (8), Arlington (2), Belmont (5), Billerica (3), Braintree (3), Cohasset (4), Framingham (2), Hingham (4), Holliston (6), Hopkinton (2), Marion (2), Medford (5), Middleboro (12), Natick (3), Peabody (6), Plympton (2), Salem (2), Swampscott (2), Tewksbury (2), Wellesley (2), Weymouth (3) and one each from Barnstable, Brockton, Chicopee, Dudley, East Bridgewater, Fall River, Halifax, Hull, Lynn, Middleton, Millville, Needham, New Bedford, Norton, Oxford, Randolph, Seekonk, South Hadley, Springfield, Upton, Walpole, Waltham, and Wilbraham .

Mosquito trapping continued at the sixteen regular long-term sites in Plymouth, Bristol, Norfolk, Middlesex and eastern Worcester Counties. Sites in Brookline and Boston were also trapped. In addition, Mosquito Control Projects throughout the state continue to send in mosquitoes for testing. Over 2000 mosquito pools collected from sites throughout Massachusetts have been tested. Two pools of *Culiseta melanura*, one collected on 9/15 in Boston and one collected on 9/16 in Halifax tested positive for eastern equine encephalitis virus (EEEV). A season total of 12 EEEV isolates have been found. Four WNV isolates have also been found this season, 3 in Brookline and one in Boston.

To date, specimens have been submitted from 213 patients for testing. One hundred and ninety-seven have tested negative for arbovirus infections, one tested positive for EEEV infection and 15 are pending. Weekly arbovirus reports and informational material on WNV and EEEV can be accessed at <http://www.state.ma.us/dph>.

Total Number of Mosquitoes Analyzed: 25,744

Virus Isolates in Mosquito Pools:

Virus	Mosquito	Site	Collection Date
1 HJV	<i>Culex pipiens</i>	Boston	6/29/00
1 EEEV	<i>Culiseta melanura</i>	Easton	7/23/00
1 EEEV	<i>Culiseta melanura</i>	Boston	7/24/00
1 WNV	<i>Culex spp.</i>	Brookline	8/08/00
1 EEEV	<i>Culiseta melanura</i>	Foxboro	8/14/00
1 WNV	<i>Culex spp.</i>	Boston	8/20/00
1 WNV	<i>Culex restuans</i>	Brookline	8/25/00
1 WNV	<i>Aedes triseriatus</i>	Brookline	9/02/00
1 EEEV	<i>Culiseta melanura</i>	Hanover	9/02/00
1 HJV	<i>Culiseta melanura</i>	Hanover	9/02/00
1 HJV	<i>Culiseta melanura</i>	Carver	9/02/00
1 EEEV	<i>Culiseta melanura</i>	Easton	9/03/00
1 EEEV	<i>Culiseta melanura</i>	Foxboro	9/03/00
1 HJV	<i>Culiseta melanura</i>	New Bedford	9/03/00
1 EEEV	<i>Culiseta melanura</i>	Boston	9/07/00
1 EEEV	<i>Aedes vexans</i>	Boston	9/07/00
1 HJV	<i>Culiseta melanura</i>	Westboro	9/09/00
2 HJV	<i>Culiseta melanura</i>	Halifax	9/09/00
1 EEEV	<i>Culiseta melanura</i>	Easton	9/09/00
1 EEEV	<i>Culiseta melanura</i>	Brockton	9/09/00
1 EEEV	<i>Culiseta melanura</i>	Boston	9/15/00
1 EEEV	<i>Culiseta melanura</i>	Halifax	9/16/00
1 HJV	<i>Culiseta melanura</i>	Halifax	9/16/00

Total: 4 WNV, 12 EEEV, 8 HJV

Mosquito Surveillance Weekly Test Report

09/16/00 to 09/22/00

*Mosquito Species**

*Virus in Mosquito Pools***

<i>Site</i>	<i>Cs mel</i>	<i>Cq per</i>	<i>Ae can</i>	<i>Ae vex</i>	<i>Cx pip</i>	<i>Cx other</i>	<i>Other Sp</i>	<i>EEEV</i>	<i>HJV</i>	<i>WNV</i>
Bedford	0	0	0	0	0	0	0	0	0	0
Boston	1	0	0	1	2	48	6	0	0	0
Brockton	0	0	0	0	0	0	0	0	0	0
Brookline	0	0	0	0	0	0	0	0	0	0
Canton	0	0	0	0	0	0	0	0	0	0
Carver	4	0	3	0	0	0	0	0	0	0
Easton	15	0	10	0	0	0	0	0	0	0
Foxboro	4	0	0	0	0	0	0	0	0	0
Greenfield	0	0	0	0	0	0	0	0	0	0
Halifax	94	0	0	0	0	0	0	1	1	0
Hanover	8	0	0	0	0	0	0	0	0	0
Holliston	2	0	1	0	0	0	0	0	0	0
Hopkinton	0	0	0	0	0	0	0	0	0	0
Kingston	37	0	2	0	0	0	0	0	0	0
Lakeville	0	0	0	0	0	0	0	0	0	0
Nantucket	0	0	0	0	0	0	0	0	0	0
New Bedford	86	0	0	0	0	0	0	0	0	0
Northampton	0	0	0	0	0	0	0	0	0	0
Norton	0	0	0	0	0	0	0	0	0	0
Pittsfield	0	0	0	0	0	0	0	0	0	0
Raynham	23	0	0	0	0	0	0	0	0	0
Reading	0	0	0	0	0	0	0	0	0	0
Rehoboth	0	0	0	0	0	0	0	0	0	0
South Hadley	0	0	0	0	0	0	0	0	0	0
Springfield	0	0	0	0	0	0	0	0	0	0
Upton	0	0	0	0	0	0	0	0	0	0
Walpole	0	0	0	0	0	0	0	0	0	0
Westboro	13	0	3	0	0	0	0	0	0	0
Westport	0	0	0	0	0	0	0	0	0	0
Total for DPH	287	0	19	1	2	48	6	1	1	0

Mosquito Surveillance Cumulative Test Report through 9/22/00

<i>Site</i>	<i>Mosquito Species*</i>							<i>Virus in Mosquito Pool**</i>		
	<i>Cs mel</i>	<i>Cq per</i>	<i>Ae can</i>	<i>Ae vex</i>	<i>Cx pip</i>	<i>Cx other</i>	<i>Other Sp</i>	<i>EEEV</i>	<i>HJV</i>	<i>WNV</i>
Bedford	0	1	0	400	0	21	11	0	0	0
Boston	2	0	0	1	584	663	13	0	0	0
Brockton	169	24	17	9	18	14	0	1	0	0
Brookline	0	0	0	1	71	64	7	0	0	2
Canton	144	92	30	22	18	14	0	0	0	0
Carver	454	350	38	2	15	4	0	0	1	0
Easton	1401	23	345	12	78	81	11	3	0	0
Foxboro	321	88	54	12	36	9	0	2	0	0
Greenfield	2	2	0	5	42	12	3	0	0	0
Halifax	1547	27	63	4	56	32	12	1	3	0
Hanover	431	7	9	33	16	6	1	1	1	0
Holliston	358	8	89	8	14	23	0	0	0	0
Hopkinton	0	0	1	13	143	341	1	0	0	0
Kingston	476	43	12	3	53	19	0	0	0	0
Lakeville	75	37	8	0	55	20	1	0	0	0
Nantucket	0	0	0	0	76	9	0	0	0	0
New Bedford	805	17	25	6	89	31	4	0	1	0
Northampton	1	3	18	250	30	2	2	0	0	0
Norton	89	2	1	32	177	24	0	0	0	0
Pittsfield	0	0	0	0	89	21	2	0	0	0
Raynham	142	24	22	16	20	13	16	0	0	0
Reading	0	0	0	0	0	55	0	0	0	0
Rehoboth	89	7	65	11	12	4	1	0	0	0
South Hadley	1	1	0	4	236	48	0	0	0	0
Springfield	19	4	7	17	60	35	0	0	0	0
Upton	0	0	0	0	0	57	1	0	0	0
Walpole	174	328	42	83	18	4	8	0	0	0
Westboro	354	33	66	31	62	18	6	0	1	0
Westport	158	1	38	8	2	18	2	0	0	0
<i>Total for DPH</i>	7212	1122	950	983	2070	1662	102	8	7	2

Mosquito Control Districts Cumulative Test Report through 9/22/00

<i>Project</i>	<i>Mosquito Species*</i>							<i>Virus in Mosquito Pools**</i>		
	<i>Cs mel</i>	<i>Cq per</i>	<i>Ae can</i>	<i>Ae vex</i>	<i>Cx pip</i>	<i>Cx other</i>	<i>Other Sp</i>	<i>EEEV</i>	<i>HJV</i>	<i>WNV</i>
Berkshire County MCD	0	0	0	0	0	0	11	0	0	0
Bristol County MCD	206	3	3	17	973	220	21	0	0	0
Cape Cod MCD	0	0	0	0	0	3009	0	0	0	0
Central MA MCD	0	0	4	0	201	226	13	0	0	0
CMMCP	0	0	0	0	66	253	4	0	0	0
East Middlesex MCD	0	0	2	0	311	1998	14	0	0	1
Essex County MCD	1	0	0	1	85	9	3	0	0	0
Norfolk County MCD	0	0	0	0	249	64	9	0	0	0
Northeast MCD	9	0	0	0	31	2	0	0	0	0
Plymouth County MCD	0	7	110	38	216	151	5	0	0	0
Suffolk County MCD	151	251	112	1092	896	582	14	4	1	1
<i>Total for MCD</i>	367	261	231	1148	3028	6514	94	4	1	2

***Mosquito species name abbreviations:**

Cs mel = *Culiseta melanura*

Cq per = *Coquillettidia perturbans*

Ae can = *Aedes canadensis*

Ae vex = *Aedes vexans*

Cx pip = *Culex pipiens*

****Virus name abbreviations:**

EEEV = Eastern Equine Encephalitis Virus

HJV = Highlands J Virus

WNV = West Nile Virus